

### ABSTRACT OF THE DISCLOSURE

An ink jet recording apparatus has an ink jet head comprised of a substrate having at least a pair of partition walls with deformable side walls spaced apart at a preselected distance to form a channel for receiving ink and communicating with a nozzle opening, a pair of electrodes each connected to respective ones of the side walls of the partition walls, and a driving circuit for applying a driving voltage to the pair of electrodes to deform the side walls of the partition walls to vary the volume of the channel to thereby eject ink from the channel. A data storage device of the ink jet head stores two or more different types of driving information data of the ink jet head including driving condition data. An external circuit is connected to the driving circuit of the ink jet head and has a setting device for reading at least the driving condition data stored in the data storage device and automatically setting driving conditions of the ink jet head.